

GREX GRAINEx Overflight - Twin Otter - GRC 07/26/18 Science Report

Aircraft: [Twin Otter - GRC](#) ([See full schedule](#))

Date: Thursday, July 26, 2018

Mission: GREX GRAINEx Overflight

Mission Location: Lincoln, NE

Mission Summary:

Flight went well. Completed all lines except 5.2 (nominal for the max fuel load). Quicklook is attached.

Submitted by: Wu, Albert on 07/26/18

Related Flight Report:

Twin Otter - GRC 07/26/18

Flight Number: GREX 2018-10 (KLNK Flight 7)

Payload Configuration: GREX Sensor

Nav Data Collected: Yes

Total Flight Time: 3 hours

Submitted by: Kurt Blankenship on 07/26/18

Flight Segments:

| | | | |
|---------------------------|---|----------------|------------------|
| From: | LNK | To: | LNK |
| Start: | 07/26/18 14:04 Z | Finish: | 07/26/18 17:04 Z |
| Flight Time: | 3 hours | | |
| Log Number: | 18T003 | PI: | Edward Kim |
| Funding Source: | Jared Entin - NASA - SMD - ESD Hydrology Program | | |
| Purpose of Flight: | Science | | |
| Comments: | Last GREX flight in Lincoln NE, all 5 lines were flown except that the last segment of line five was dropped. Lines were flown at 2,600' MSL. Good weather no issues noted. | | |

Flight Hour Summary:

| | |
|---------------------------------------|---------------|
| | 18T003 |
| Flight Hours Approved in SOFRS | 35 |
| Total Used | 28.6 |
| Total Remaining | 6.4 |


18T003 Flight Reports

| Date | Flt # | Purpose of Flight | Duration | Running Total | Hours Remaining | Miles Flown |
|--------------------------|--|-------------------|----------|---------------|-----------------|-------------|
| 07/12/18 | GREX 2018-1 (Engineering Check Flight) | Science | 1.1 | 1.1 | 33.9 | |
| 07/16/18 | GREX 2018-2 (Ferry to KLNK) | Ferry | 2.9 | 4 | 31 | |
| 07/16/18 | GREX 2018-3 (Ferry to KLNK) | Ferry | 2.2 | 6.2 | 28.8 | |
| 07/17/18 | GREX 2018-4 (KLNK Flight 1) | Science | 1 | 7.2 | 27.8 | |
| 07/19/18 | GREX 2018-5 (KLNK Flight 2) | Science | 3.5 | 10.7 | 24.3 | |
| 07/20/18 | GREX 2018-6 (KLNK Flight 3) | Science | 2.3 | 13 | 22 | |
| 07/23/18 | GREX 2018-7 (KLNK Flight 4) | Science | 3.2 | 16.2 | 18.8 | |

| | | | | | |
|--------------------------|-----------------------------------|---------|-----|------|------|
| 07/24/18 | GREX 2018-8 (KLNK Flight 5) | Science | 3.1 | 19.3 | 15.7 |
| 07/25/18 | GREX 2018-9 (KLNK Flight 6) | Science | 1.7 | 21 | 14 |
| 07/26/18 | GREX 2018-10 (KLNK Flight 7) | Science | 3 | 24 | 11 |
| 07/27/18 | GREX 2018-11 (Ferry KLNK to KMLI) | Ferry | 2 | 26 | 9 |
| 07/27/18 | GREX 2018-12 (Ferry KMLI to KCLE) | Ferry | 2.6 | 28.6 | 6.4 |

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

Flight Tracks:

| Attachment | Size |
|--|--------|
|  20180726 Science Flight Quicklook_M2_V.kmz | 1.1 MB |

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NASA Official: Bruce A. Tagg

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